

## INTERNATIONAL SEARCH REPORT

|                   |                |
|-------------------|----------------|
| Inter             | Application No |
| PCT/US2004/037642 |                |

## A. CLASSIFICATION OF SUBJECT MATTER

|       |            |            |           |           |           |
|-------|------------|------------|-----------|-----------|-----------|
| IPC 7 | A61K31/505 | A61K31/519 | A61P9/10  | A61P19/02 | A61P25/16 |
|       | A61P25/28  | A61P37/00  | A61P29/00 |           |           |

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category <sup>a</sup> | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.                             |
|-----------------------|---|---|
| X                     | <p>WO 02/47690 A (CYTOVIA, INC)<br/>20 June 2002 (2002-06-20)</p> <p>claims 1,2,13-,17,24,25,27,29,39<br/>paragraphs '0001!, '0012! - '0015!,<br/>'0055! - '0057!, '0060!, '0065! - '0068!<br/>See compounds having registry numbers:<br/>438247-48-4, 438247-49-5, 438247-50-8,<br/>438247-51-9, 438247-54-2, 438247-57-5,<br/>438247-74-6, 438247-91-7, 438247-92-8,</p> <p>See compounds having registry numbers:<br/>438248-08-9, 438248-10-3, 438248-12-5,<br/>438248-14-7, 438248-16-9, 438248-18-1,<br/>300359-07-3, 331648-44-3, 331648-44-3,<br/>See compounds in table 1, N. 73, 75, 81,<br/>46, 20</p> <p>-----</p> <p>-/-</p> | <p>1-7, 12,<br/>13,<br/>15-19,<br/>27, 28, 31</p> |

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## ° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

18 May 2005

02/06/2005

Name and mailing address of the ISA

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Authorized officer

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.  |
|----------|--|--|
| X        | DE 24 44 426 A1 (DELALANDE S.A)<br>27 March 1975 (1975-03-27)<br><br>See compounds in table 1<br>page 21, line 3<br>page 35, paragraph 1-3<br>page 21, line 9 - page 40, line 7<br>-----<br>X DE 27 29 360 A1 (DELALANDE S.A)<br>12 January 1978 (1978-01-12)<br>See compounds of table 1.<br>claim 10<br>page 21, lines 3-8<br>page 21, paragraph 2 - page 40, paragraph 2<br>-----<br>X DATABASE CA 'Online!<br>CHEMICAL ABSTRACTS SERVICE, COLUMBUS,<br>OHIO, US;<br>YONETOKU, YASUHIRO ET AL: "Preparation of<br>4-aminopyrimidine derivatives as insulin<br>secretion accelerators"<br>XPO02328217<br>retrieved from STN<br>Database accession no. 2003:261678<br>abstract<br>See compounds having RN: 504404-59-5,<br>504404-58-4, 504404-57-3, 504404-57-3,<br>378217-44-8, 504399-71-7, 504399-74-0,<br>504399-75-1, 504399-76-2, 504399-77-3,<br>504399-82-0, 504399-83-1, 504401-66-5,<br>504401-67-6, 504401-68-7, 504404-14-2<br>& WO 03/026661 A1 (YAMANOUCHI<br>PHARMACEUTICAL CO., LTD., JAPAN)<br>3 April 2003 (2003-04-03)<br>-----<br>P,X WO 2004/032716 A (MASSACHUSETTS INSTITUTE<br>OF TECHNOLOGY; CENTER FOR BLOOD RESEARCH,<br>INC) 22 April 2004 (2004-04-22)<br>sentence 12<br>See compound at page 23 "MIT9952-227" (RN:<br>330819-79-9).<br>claims<br>----- | 1-7, 12,<br>13,<br>15-19, 27<br>1-7, 12,<br>13<br>1-7<br>1-7,<br>17-19 |

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| A          | <p>DATABASE CA 'Online!'<br/>       CHEMICAL ABSTRACTS SERVICE, COLUMBUS,<br/>       OHIO, US;<br/>       TAKATANI, TAKAO ET AL: "Preparation of<br/>       pyrimidine derivatives as drugs for<br/>       treating disease and disorders of cerebral<br/>       blood vessels"<br/>       XP002328218<br/>       retrieved from STN<br/>       Database accession no. 1988:570451<br/>       abstract<br/>       See compounds having RN: 116904-43-9,<br/>       116904-44-0, 116904-54-2,<br/>       116904-55-3, 116904-56-4, 116904-26-8,<br/>       116904-27-9.<br/>       &amp; JP 63 107966 A2 (FUJISAWA PHARMACEUTICAL<br/>       CO., LTD., JAPAN) 12 May 1988 (1988-05-12)</p> <p>-----</p> | 8                     |
| A          | <p>WO 02/42280 A (F. HOFFMANN-LA ROCHE AG)<br/>       30 May 2002 (2002-05-30)<br/>       See compounds having registry number:<br/>       432521-18-1 and 432521-49-8</p> <p>-----</p>   | 9                     |
| A          | <p>US 5 849 758 A (KLEEMANN ET AL)<br/>       15 December 1998 (1998-12-15)<br/>       the whole document</p> <p>-----</p>  | 1-13                  |

## INTERNATIONAL SEARCH REPORT

In  International application No.  
PCT/US2004/037642

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  

Although claims 15-30 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

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| Inten             | Application No |
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| Patent document cited in search report |    | Publication date |  | Patent family member(s)  |  | Publication date   |
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